

CLAIMS

1. An image reading device comprising:

a light source; and

5 a light guide including a main region extending in a primary scanning direction and a subsidiary region contacting with an end of the main region;

wherein the subsidiary region includes a light incident surface located above the light source, and an inclined surface 10 that is inclined toward the main region as proceeding upward, so that light entering the light incident surface and then traveling upward is reflected generally horizontally toward the main region,

wherein the main region includes a light emitting surface,

15 and a main reflecting surface provided with a light reflector for reflecting the light traveling from the subsidiary region to the main region, so that the light is emitted from the light emitting surface,

wherein the light source is offset in a direction receding 20 from the main region with respect to a center of the light incident surface in the primary scanning direction.

2. The image reading device according to claim 1, further comprising a base plate on which the light source is mounted.

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3. The image reading device according to claim 1, further comprising a resin packaging cover for accommodating the light

source, the resin packaging cover including a body made of a white resin and a light passing portion made of a transparent resin for causing light from the light source to emit from the resin cover.

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4. The image reading device according to claim 1, wherein the light source includes a plurality of light-emitting diode chips arranged in an array extending in a secondary scanning direction.

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5. The image reading device according to claim 4, wherein the light-emitting diode chips include a red diode, a green diode, and a blue diode.

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6. The image reading device according to claim 1, wherein the main region of the light guide include a pair of side surfaces extending between the main reflecting surface and the light emitting surface, the side surfaces being parabolic and having a main axis coinciding with a line centered widthwise of the

20 main region.

7. The image reading device according to claim 6, wherein the surfaces of the light guide are mirror-finished.

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8. The image reading device according to claim 1, further comprising a reflector held in contact with the light guide.

9. The image reading device according to claim 1, wherein the light reflector includes a plurality of recesses spaced from each other in the primary scanning direction.